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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/712,802	11/12/2003	Репту Ү. Li	12100.7USC1	7839
. 759	90 08/19/2005		EXAMINER	
Attention of Gregory A. Sebald MERCHANT & GOULD P.C.			STAFIRA, MICHAEL PATRICK	
P.O. Box 2903	GOULD P.C.		ART UNIT PAPER NUMBE	
Minneapolis, M	IN 55402-0903		2877	:
			DATE MAILED: 08/19/2005	

Please find below and/or attached an Office communication concerning this application or proceeding.

	Application No.	Applicant(s)	
	10/712,802	LI ET AL.	(Dr)
Office Action Summary	Examiner	Art Unit	
	Michael P. Stafira	2877	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet w	vith the correspondence add	dress
A SHORTENED STATUTORY PERIOD FOR RE THE MAILING DATE OF THIS COMMUNICATIO - Extensions of time may be available under the provisions of 37 CFI after SIX (6) MONTHS from the mailing date of this communication - If the period for reply specified above is less than thirty (30) days, a - If NO period for reply is specified above, the maximum statutory pe - Failure to reply within the set or extended period for reply will, by st Any reply received by the Office later than three months after the meanned patent term adjustment. See 37 CFR 1.704(b).	NN. R 1.136(a). In no event, however, may a . I reply within the statutory minimum of thi riod will apply and will expire SIX (6) MO atute, cause the application to become A	reply be timely filed inty (30) days will be considered timely NTHS from the mailing date of this co	mmunication.
Status			
1) Responsive to communication(s) filed on _	•	·	
	This action is non-final.		
Since this application is in condition for allocation accordance with the practice und			merits is
Disposition of Claims			
4) ☐ Claim(s) 1-32 is/are pending in the applicate 4a) Of the above claim(s) is/are with 5) ☐ Claim(s) 7-24 is/are allowed. 6) ☐ Claim(s) 1-3 and 25-27 is/are rejected. 7) ☐ Claim(s) is/are objected to. 8) ☐ Claim(s) are subject to restriction are	drawn from consideration.		
Application Papers		• .	
9) The specification is objected to by the Exar			
10)⊠ The drawing(s) filed on 12 November 2003 Applicant may not request that any objection to Replacement drawing sheet(s) including the co 11)□ The oath or declaration is objected to by the	the drawing(s) be held in abeya rrection is required if the drawin	ance. See 37 CFR 1.85(a). g(s) is objected to. See 37 CF	FR 1.121(d).
Priority under 35 U.S.C. § 119	c		
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority docum 2. Certified copies of the priority docum 3. Copies of the certified copies of the application from the International But * See the attached detailed Office action for a	nents have been received. nents have been received in priority documents have bee ireau (PCT Rule 17.2(a)).	Application No n received in this National	Stage
Attachment(s)			•
1) Notice of References Cited (PTO-892)	· — <u>-</u>	Summary (PTO-413)	
 Notice of Draftsperson's Patent Drawing Review (PTO-948 Information Disclosure Statement(s) (PTO-1449 or PTO/SI Paper No(s)/Mail Date 	″	o(s)/Mail Date f Informal Patent Application (PTC	O-152)
			

Application/Control Number: 09/426,385

Art Unit: 2877

DETAILED ACTION

1. The specification needs to be amended to indicate that the current application is a continuation of application number 09/426,385, which was abandoned.

Claim Rejections - 35 USC § 102

2. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

- (b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.
- 3. Claims 1-3, 25-27 are rejected under 35 U.S.C. 102(b) as being anticipated by Sato ('906).

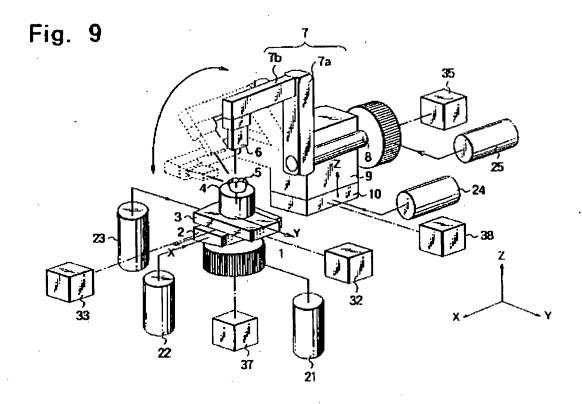
Claim 1

The reference of Sato ('906) discloses a scanner having a measuring device (Fig. 9, Ref. 6) for measuring the shape of a scanned article (Fig. 9, Ref. 5)(Col. 12-13, lines 65-5, 46-58); a support assembly adapted for retaining (Fig. 9, Ref. 4) an article (Fig. 9, Ref. 5) and moving through three degrees of freedom (Fig. 9, Ref. 21, 22, 23) relative to the scanner such that the scanner is capable of scanning the exterior of the retained article (Col. 12, lines 19-42).

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Claim 2

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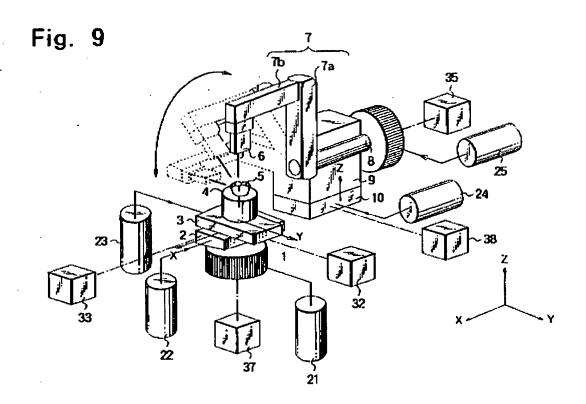
Sato ('906) further discloses the support assembly includes a two degree of freedom linkage rotatably mounted relative to the scanner (Fig. 9, Ref. 22, 23).

Claim 3

The reference of Sato ('906) further discloses the support assembly includes a two degree of freedom linkage, and an article holder rotatably mounted to the linkage (Fig. 9, Ref. 22, 23, 4).

Claim 25

Sato ('906) discloses providing a scanner device (Fig. 9, Ref. 6)(Col. 12-13, lines 65-5, 46-58); providing an article holder (Fig. 9, Ref. 4); providing linkage for moving the scanner (Fig. 9, Ref. 24, 25) device and article holder (Fig. 9, Ref. 21, 22, 23) relative to one another through three degrees of freedom, thereby moving the article through the scanner beam over the entire portion of the article to be scanned (Col. 12, lines 19-42).



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Claim 26

The reference of Sato ('906) further discloses the linkage moves the scanner device and the article relative to one another through a scanning pattern having curved paths of motion (See Fig. 9).

Claim 27

Sato ('906) further discloses the moving the article holder and scanner relative to one another through a fourth degree of freedom (See Fig. 9).

Allowable Subject Matter

- 4. Claims 7-24 are allowed over the prior art of record.
- 5. The following is a statement of reasons for the indication of allowable subject matter:

Regarding claim 7, the prior art fails to disclose or make obvious a scanning apparatus having a scanner having a measuring device for measuring the shape of a scanned article; a linkage comprising: a first ground link: a second link rotatably mounted to the first link about a first axis; a third link rotatably mounted to the second link about a second axis; a fourth link rotatably mounted to the third link about a third axis; a fifth link rotatably mounted to the fourth link about a fourth axis and rotatably mounted to the first link about a fifth axis; an article holder mounted to one of the links adapted for supporting an article to be scanned exterior of a sphere defined by the linkage; wherein the scanner and article holder are movable relative to one another to scan the surface of the article, and in combination with the other recited limitations of claim 7. Claims 8-24 are allowed by the virtue of dependency on the allowed claim 7.

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6. Claims 4-6, 28-32 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Michael P. Stafira whose telephone number is 571-272-2430. The examiner can normally be reached on 4/10 Schedule Mon.-Thurs..

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Gregory Toatley can be reached on 571-272-2800 ext. 77. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (tall-free).

Michael P. Stafira Primary Examiner Art Unit 2877

August 16, 2005